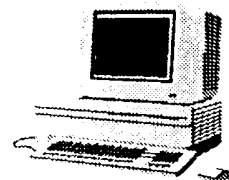


BioTech-Chem Library

Search Results

Feedback Form (Optional)



Scientific & Technical Information Center

The search results generated for your recent request are attached. If you have any questions or comments (compliments or complaints) about the scope or the results of the search, please contact *the BioTech-Chem searcher* who conducted the search *or contact*:

Mary Hale, Supervisor, 308-4258
CM-1 Room 1E01

Voluntary Results Feedback Form

➤ *I am an examiner in Workgroup:* (Example: 1610)

➤ *Relevant prior art **found**, search results used as follows:*

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ *Relevant prior art **not found**:*

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Search results were not useful in determining patentability or understanding the invention.

Other Comments:

CAPLUS

Wright 09/889,515

February 24, 2003

=> a que

L1

STR

1 C 3 C 8 G2 10 CH2Cb CH2Hy SC2Cb SO2Hy
@12 13 @14 15 @16 17 @18 19

6 C C N
C 4 9 G1 11

C CH2 OH O = C NH SO2 NH Hy @29 41
@21 22 23 24 @25 26 @27 28 O
O S O
40 @30 31

C N SO2Hy O C O
@33 34 35 36 37 @38 39

VAR G1=12/14/16/18

VAR G2=21/25/27/29/30/33/38/CN

NONE ATTRIBUTES:

CONNECT IS X3 FC AT 7
CONNECT IS X3 FC AT 8
CONNECT IS E1 FC AT 31
CONNECT IS E1 FC AT 39
CONNECT IS E1 FC AT 40
CONNECT IS E1 FC AT 41
DEFAULT MLEVEL IS ATOM
GG AT IS UNS AT 13
GG AT IS UNS AT 15
GG AT IS UNS AT 17
GG AT IS UNS AT 19
DEFAULT ELEVEL IS LIMITED
EG UNT IS M6 C AT 13
EG UNT IS M6 C AT 17
EG UNT IS E1 C E4 N AT 29
EG UNT IS E3 C E1 N E1 O AT 36

GRAPH ATTRIBUTES:

RINGS ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 41

ENTERED ATTRIBUTES: NONE

L1 615340 SEA FILE=REGISTRY ABB=CN PLU=CN NC4-C6/ES
L4 528108 SEA FILE=REGISTRY ABB=CN PLU=CN L3 AND NR>2 AND NRS>1
L5 466245 SEA FILE=REGISTRY ABB=CN PLU=CN L4 AND NC=1
L7 1537 SEA FILE=REGISTRY SUB=L5 SSS FUL L1
L8 STR

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          20
          O
      G1 10
          7
      2 C 3 C C3
      1 C C C3
          C3
      6 C C N9
          C 4
          5

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      NH SO2G2
      @14 15 16

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      21
      O
      O C G3
      @17 18 19

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      Ak @22   Cy @23   N Ak   N Cy   N @28   Ak N Ak
                @24 25   @26 27   @29 @30 31

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      Cy N Cy   Cy N Ak
      32 @33 34 35 @36 37

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VAR G1=11/14/17

VAR G2=22/23

VAR G3=24/26/28/30/33/36

NODE ATTRIBUTES:

NSPEC IS R AT 28

CONNECT IS E2 FC AT 24

CONNECT IS E2 FC AT 26

DEFAULT MLEVEL IS ATOM

GGCAT IS UNS AT 23

GGCAT IS UNS AT 27

GGCAT IS UNS AT 32

GGCAT IS UNS AT 34

GGCAT IS UNS AT 35

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 37

STEREO ATTRIBUTES: NONE

L10 14 SEA FILE=REGISTRY SUB=L7 SSS FUL L9

L11 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L10

=> d ibib abs hitstr

111 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:553552 HCAPLUS

DOCUMENT NUMBER: 133:164001

TITLE: Preparation of indole-2-carboxylic acids as anti-inflammatory agents

INVENTOR(S): Faull, Alan Wellington; Kettle, Jason

PATENT ASSIGNEE(S): Astrazeneca UK Limited, UK

FILED: PCT Int. Appl., 4th pp.

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000046195	A1	20000810	WO 2000-GB260	20000131
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CE, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: SH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1159264	A1	20011205	EP 2000-901255	20000131
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2003507279	T2	20030121	JP 2000-597266	20000131
PRIORITY APPLN. INFO.:			GB 1999 2459	A 19990205
			WO 2000-GB260	W 20000131
OTHER SOURCE(S):		MARPAT 133:164001		
GI				

O O
H N
N

R4 R3 CO₂H
R5 N
R2 C1
R7 X R1 I C1 II

AB The title compds. [I; X = CH₂, SO₂; R1 = (un)substituted aryl, heteroaryl; R2 = CO₂H, CN, COCH₂CH₃, etc.; R3 = H, alkyl, alkenyl, etc.; R4 = NHCOR15, NHCOR16, OCONR16R17 (wherein R15 = (un)substituted alkyl, aryl, heteroaryl; R16, R17 = H, (un)substituted alkyl, aryl, heteroaryl; with the proviso that at least one of R16 or R17 is other than hydrogen, or NR16R17 form (un)substituted heterocyclic ring which optionally contains further heteroatoms); R5-R7 = H, a functional group, (un)substituted hydrocarbyl, heterocyclyl; and further provided that when R4 = NHCOR15, R15 = substituted alkyl, (un)substituted aryl, (un)substituted heteroaryl], useful in the treatment of disease mediated by monocyte chemoattractant protein 1 or RANTES (Regulated Upon Activation, Normal

IT 288067-50-5P 288067-51-6P 288067-52-7P
 288067-53-8P 288067-54-9P 288067-55-0P
 288067-56-1P 288067-57-2P 288067-58-3P
 288067-59-4P 288067-60-7P 288067-61-8P
 288067-62-9P 288067-63-0P

RL: EAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of indole-2-carboxylic acids as anti-inflammatory agents)

RN 288067-50-5 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-(phenylmethyl)-4-[[[5-(2-pyridinyl)-2-thienyl]sulfonyl]amino]- (9CI) (CA INDEX NAME)

N

S

C S C

NH

CO₂H

N

CH₂ Ph

RN 288067-51-6 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(3,4-dichlorophenyl)methyl]-4-[(4-morpholinylacetyl)amino]- (9CI) (CA INDEX NAME)

O

N

CH₂

NH

Cl

CO₂H

Cl

N H₂

1-piperazinyl[acetyl]amino]- (9CI) (CA INDEX NAME)

Me

N

N

CH₂

C O

NH

CO₂H

Cl

N CH₂

Cl

RN 288067-53-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 4-[[[4-(acetylamino)phenyl]sulfonyl]amino]-1-
[(3,4-dichlorophenyl)methyl]- (9CI) (CA INDEX NAME)

NHAc

C S O

NH

CO₂H

Cl

N CH₂

Cl

RN 288067-54-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(3,4-dichlorophenyl)methyl]-4-[[[5-(2-
pyridinyl) 2 thienyl]sulfonyl]amino]- (9CI) (CA INDEX NAME)

N

S

O S O

NH

Cl

CO₂H

Cl

N CH₂

RN 298067-55-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(3,4-dichlorophenyl)methyl] 4-[[[(1,1-dioxido-4-thiomorpholinyl)acetyl]amino]- (9CI) (CA INDEX NAME)

O O

S

N

CH₂

O O

NH

Cl

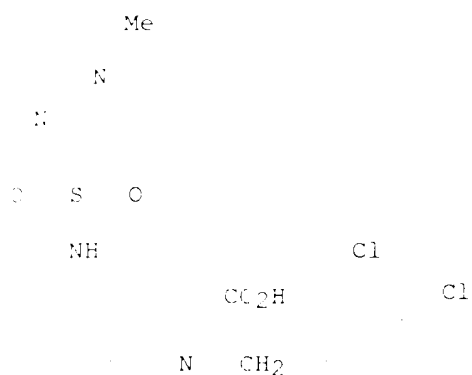
CO₂H

Cl

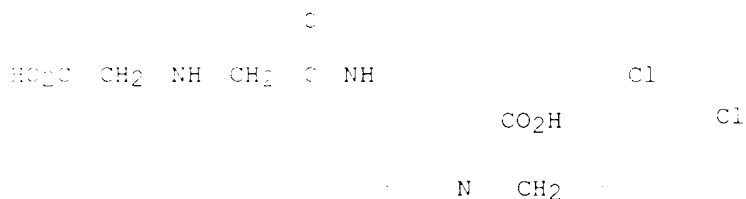
N CH₂

RN 298067-56-1 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(3,4-dichlorophenyl)methyl]-4-[[[1-methyl-1H-imidazo[4,5-f]sulfonyl]amino]- (9CI) (CA INDEX NAME)



RN 288067-57-2 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 4-[[[(carboxymethyl)amino]acetyl]amino]-1-
[[3,4-dichlorophenyl)methyl]- (9CI) (CA INDEX NAME)

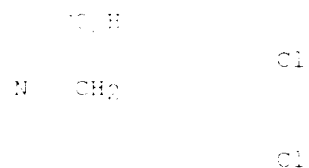
RN 288067-58-3 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 4-[[[(6-chloro-3-pyridinyl)sulfonyl]amino]-1-
[[3,4-dichlorophenyl)methyl]- (9CI) (CA INDEX NAME)

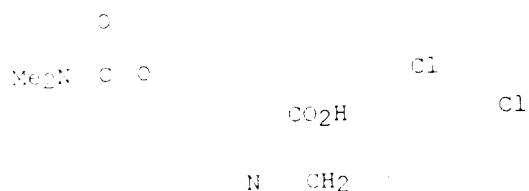
Cl

N

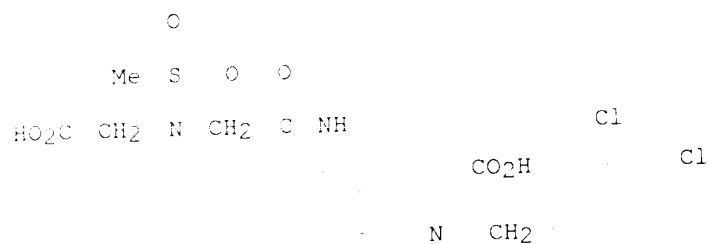
NH



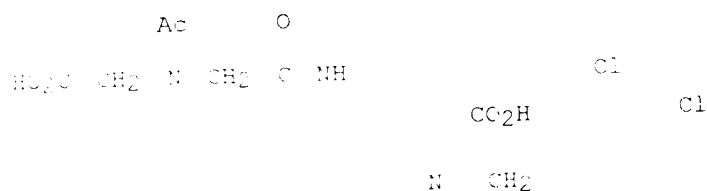
C. H. W. H. H.



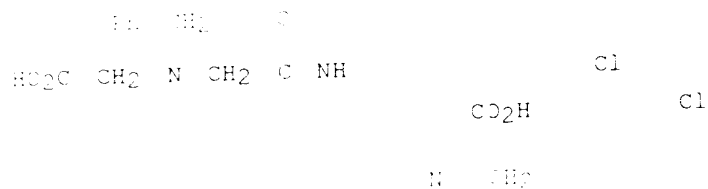
RN 288067-60-7 HCAPLUS
 CN 1H-Indole-2-carboxylic acid, 4-[[[(carboxymethyl)(methylsulfonyl)amino]acetyl]amino]-1-[(3,4-dichlorophenyl)methyl]- (9CI) (CA INDEX NAME)



RN 288067-61-8 HCAPLUS
 CN 1H-Indole-2-carboxylic acid, 4-[[[acetyl(carboxymethyl)amino]acetyl]amino]-1-[(3,4-dichlorophenyl)methyl]- (9CI) (CA INDEX NAME)

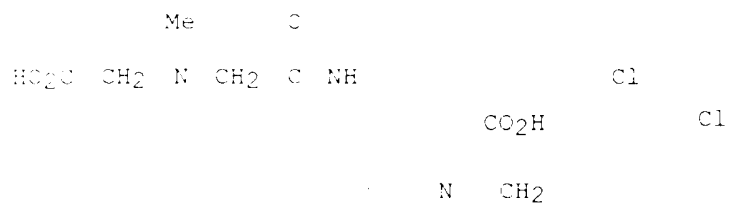


RN 288067-62-9 HCAPLUS
 CN 1H-Indole-2-carboxylic acid, 4-[[[(carboxymethyl)(phenylmethyl)amino]acetyl]amino]-1-[(3,4-dichlorophenyl)methyl]- (9CI) (CA INDEX NAME)



Wright 09/889,515

February 24, 1954



REFERENCE COUNT:

5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

MARPAT

Wright 09/889,515

February 24, 2003

=> d que

L12

STR

G3 42

CH2Cb
@12 13

CH2Hy
@14 15

SO2Cb
@16 17

SO2Hy
@18 19

2 C 3 C 8 G2 10
1 C C C

6 C C N
C 4 9 G1 11
S

C C CH2 OH
20 @21 22 23

C C NH
24 @25 26

SO2 NH
@27 28

Hy @29

41
O

O S O
40 @30 31

C C N SO2Hy
32 @33 34 35 36

C C O
37 @38 39

52
O
|
NH C G4
@43 44 45

53
O
|
O C G5
@49 50 51

NH SO2G4
@46 47 48
G1 @62 63

Ak @54 Cy @55
Ak N Cy
64 @65 66

N Ak
@56 57 Cy
67 @68 69

N Cy
@58 59

N @60

VAR G1=12/14/16/18

VAR G2=21/25/27/29/30/33/38/CN

VAR G3=43/44/46

VAR G4=54/55

VAR G5=56/58/60/62/65/68

NODE ATTRIBUTES:

NAMEC IS E AT 60

CONNECT IS X3 EC AT 7

CONNECT IS X3 EC AT 8

CONNECT IS E1 EC AT 31

CONNECT IS E1 EC AT 39

CONNECT IS E1 EC AT 40

CONNECT IS E1 EC AT 41

CONNECT IS E2 EC AT 50

CONNECT IS E2 EC AT 58

DEFAULT MLEVEL IS ATOM

GGCAT IS UNS AT 13

GGCAT IS UNS AT 15

GGCAT IS UNS AT 17

GGCAT IS UNS AT 19

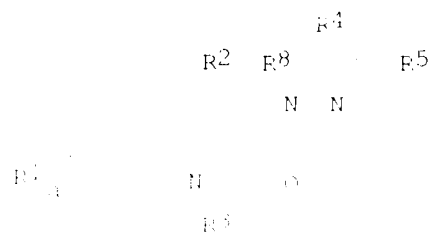
GGCAT IS UNS AT 55

GGCAT IS UNS AT 59

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STEREO ATTRIBUTES: NONE
L14          17 SEA FILE=MARPAT SSS FUL L12
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ACCESSION NUMBER: 137:93684 MARPAT
TITLE: Preparation of 3-substituted indole angiogenesis inhibitors
INVENTOR(S): Bamaung, Nwe Y.; Craig, Richard A.; Kawai, Megumi; Wang, Jieyi; Dai, Yujia; Guo, Yan; Sheppard, George; Verzal, Mary K.; Vasudevan, Anil; Michaelides, Michael
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 49 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002091148	A1	20020711	US 2001-952603	20010914
PRIORITY APPLN. INFO.:			US 2000-253390P	20000915
GI				



AB The title compds. [I; a = 0-4; R1 = alkoxy, NH₂, halo, OH, NO₂; R2 = alkenyl, alkyl, aryl, etc.; R3 = H, alkyl, N protecting group; one of R4 and R5 = alkyl, aryl, arylalkyl, etc., and the other = H, alkyl; R8 = H, alkyl], useful in inhibiting angiogenesis and cancer, were prepd. E.g., a multistep synthesis of 1 (R1 = H; R2 = CH₃; R3 = H; R4 = Me; R5 = Et; R6 = Me; R7 = Me; R8 = H) is shown.

MSTR 1

G1 G2 O
 G1
 C G8 N G16
 G1 N
 G1 G3

G3 = 219

G31
 219

G8 = NH
 G11 = NH
 G12 = 221

O

G28
 221

G28 = Me
 G31 = 235

G33
 235

MBL: claim 1
 NTE: or therapeutically acceptable salts

114 ANSWER 2 OF 17 MARPAT COPYRIGHT 2003 ACS

ACCESSION NUMBER: 136:295089 MARPAT
 TITLE: Preparation of amino acid aromatic derivatives with
 HIV integrase inhibitory properties
 INVENTOR(S): N'Zemba, Blaise M'gbeire; Sauve, Gilles; Devlin, Guy;
 Yelle, Jocelyn
 PATENT ASSIGNOR(S): Pharmacia, Inc., Can.
 SOURCE: PCT Int. Appl., 173 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY APP. NUM. COUNT: 1
 PATENT INFO EMAIL ID:

WO 2002026697 A2 20020404 WO 2001-CA1367 20010925
 WO 2002026697 A3 20020516
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BE, BY, BZ, CH, CN, CO,
 CF, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM,
 HF, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KU, LL, LK, LR, LS,
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
 RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TN, UA, UG, UZ, VN,
 YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GB, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BU, CF, CG, CI, CM, GA, GN, GD, GW, ML, ME, NE, NI, TD, TG

AU 2001095310 A5 20020408 AU 2001-95310 20010925

PRIORITY APPLN. INFO.:

CA 2000-2321348 20000927

WO 2001-CA1367 20010925

AB Amino acid derivs. R1CO-A-CONHR2 [A = NF3CR4R5, where R3, R4 = H or Me; R5 = H, alkyl, carboxyalkyl, benzyl, MeSCH2CH2, 1-indolylmethyl, 3,4-(HO)2C6H3CH2, etc.; R3R4 may be trimethylene, which may be substituted; R1, R2 are certain rings (Ph, 3-pyridyl, 2-quinolyl, 2-thienyl, etc.), which may be substituted and attached to alkyl; R2 may also be arylamino] were prep'd. as inhibitors of HIV integrase. Thus, N-[N.alpha.-(3,4-dihydroxybenzoyl)-N.tau.-trityl-L histidinyl]dopamine was prep'd. by coupling of N.alpha. (9-fluorenylmethoxycarbonyl)-N.tau.-trityl L-histidine with dopamine hydrochloride, deprotection, and acylation with 3,4-dihydroxybenzoic acid and showed anti-integrase activity IC50 = 65 nM.

MSTR 1

G15 G5 G1 NH G7
 30 2 3 4

G2 - NH
 G5 - 98-3 90-30

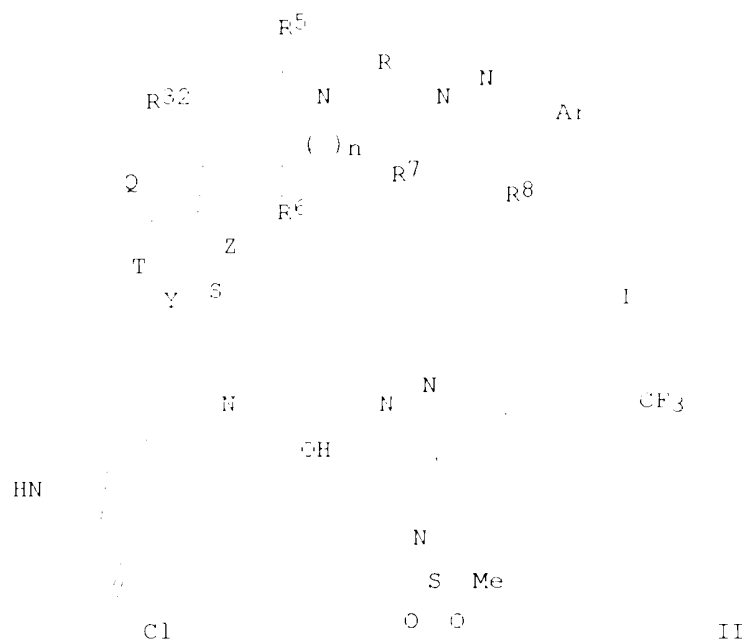
G19
 C(O) G24 G19
 98
 90 G19

G13 CHL
 G16 74 74 56

BN 74 74
 4

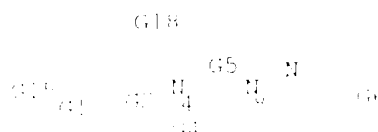
G20 257

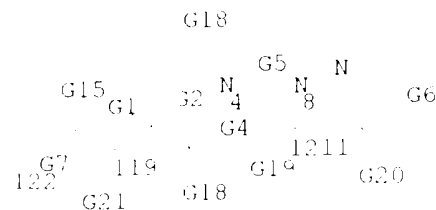
US	2000	230407P	20000306
US	2001	927188	20010810
US	2000	225178P	20000814



AB Title compds. I [wherein Ar = (un)substituted mono- or bicyclic (hetero)aryl; G = (un)substituted alkenediyl or alkanediyl; Q = O, S, or (un)substituted N; S, T, Y, and Z = independently N or (un)substituted C; R⁵ and R⁶ = independently H or alkyl; R⁷ and R⁸ = independently H, alkyl, alkenyl, alkoxy, alkylthio, halo, carbocyclyl, or heterocyclyl; or R⁷R⁸ = (un)substituted carbocyclic or heterocyclic ring; R³² = H, (hydroxy)alkyl, CN, acyl, carbamoyl, CHO, or alkoxycarbonyl; n = 0, 2; or pharmaceutically acceptable salts, amides, esters, or stereoisomers thereof] were prep'd. as cathepsin B inhibitors for the treatment of an allergic condition, including an atopic allergic conditions. For example, 1-methanesulfonylpiperidin-4-one (prepn. given) was condensed with morpholine in the presence of TsOH to give the enamine. Reaction with 4-CF₃C₆H₄COCl, followed by cycloaddn. with H₂NNH₂, gave 5-methanesulfonyl-3-(4-trifluoromethylphenyl)-4,5,6,7-tetrahydro-1H-pyrazol[4,3-c]pyridine (72%). Alkylation with epichlorohydrin (35%) and addn. of 5-chloro-3-piperidin-4-yl-1H-indole (prepn. given) afforded II (88%). The latter inhibited recombinant human cathepsin B with IC₅₀ of 0.07 μM.

MSTR 1





G7 = 131

N₁₃₁ G8

G8 = CH₂Ph
 G15 = 111

C(O)G16
 151

G16 = NH₂
 G21 = 160-119 159-122

G22

$\begin{array}{ccc} & & G22 \\ & & 160 \\ 159 & & \\ & & G22 \\ & & 122 \end{array}$

G25 = Ph
 G28 = SO₂
 G30 = NH
 MPL: claim 1
 NTE: or pharmaceutically acceptable salts, amides, or esters
 STE: or stereoisomeric forms

LI4 ANSWER 4 OF 17 MARPAT COPYRIGHT 2003 ACS

ACCESSION NUMBER: 136:200183 MARPAT

TITLE: Substituted and/or fused pyrazoles, particularly indolylpiperidinylpropyl substituted pyrazolopyridines, useful as cathepsin B inhibitors, and their pharmaceutical compositions and use as immunosuppressants

INVENTOR(S): Cai, Hui; Edwards, James P.; Medina, Steven P.; Pio, Barbara A.; Wei, Jianmei

PATENT ASSIGNEE(S): Ortho McNeil Pharmaceutical, Inc., USA

SOURCE: PCT Int. Appl., 119 pp.

CLASS: 112a

DOCUMENT TYPE: Patent

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002014317	A2	20020221	WO 2001-0325130	20010810
WO 2002014317	A3	20020704		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BE, BY, BZ, CA, CH, CN, CO, CF, CU, CZ, DE, DK, DM, DS, EE, EE, ES, FI, GB, GD, GE, GH, GM, HF, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KS, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NL, NO, NZ, PA, PE, PG, PH, PK, PL, PT, PU, PY, RE, RO, RU, SD, SE, SG, SI, SK, SL, SM, SN, ST, SV, TC, TD, TF, TG, TH, TJ, TM, TN, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KP, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MG, SD, SL, SZ, TZ, UG, ZW, AG, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, ME, NE, SH, TD, TG				
AU 2001084825	A5	20020215	AU 2001 84823	20010810
US 2002040019	A1	20020404	US 2001-927188	20010810
PRIORITY APPLN. INFO.:			US 2000-225178P	20000814
			US 2001-927188	20010810
			WO 2001-0325180	20010810

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *

AB Substituted pyrroles I, methods of manufg. them, comps. contg. them, and methods of using them to treat, for example, autoimmune diseases mediated by cathepsin S, are described [W, X, Y, Z = N, (un)substituted CH (0-3 of them may be N; or 1 can be N-oxide when other 3 noteq. N); E = H, alkyl, cyano, hydroxyalkyl, acyl, CHO, alkoxycarbonyl, or (un)substituted carbamoyl; E1, R1 = H, alkyl; R3, R4 = H, alkyl, alkenyl, alkoxy, alkylthio, halo, or 4- to 7 membered carbon- or heterocyclyl; or R3R4 = atoms to form (un)substituted (un)satd. (non)arom. 5- to 7-membered carbon- or heterocyclic ring; Ar = (un)substituted mono- or bicyclic (hetero)aryl; n = 0-2; G = (un)substituted C3-6 alkanediyl or alkenediyl (substituents = OH, halo, cyano, aminoalkyl, etc.); Q = O, S, (un)substituted NH; including stereoisomers, pharmaceutically acceptable salts, esters, and amides]. Claimed uses include treatment of lupus, rheumatoid arthritis, and particularly asthma, and inhibition of tissue transplant rejection. Approx. 70 individual compds. I were prepd. and/or claimed, with detailed preps. given for 13 compds. For instance, 6 (morpholin-4-yl)-3-piperidin-4-yl-1H-pyrrolo[3,2-c]pyridine (prepd. in 5 steps) reacted with the corresponding epoxide (prepd. in several steps) to give title compd. II, a preferred compd. In an assay for inhibition of recombinant human cathepsin S in vitro, II had an IC50 of 0.92 μ M. Compd. III is another one of four specifically preferred compds.

MSTR 1

G18
 G15 G1 G2 N₄ G5 N₈ N G6
 G4
 G7 119 G19 1211 G20
 122 G21 G18

G7 = 131

N₁₃₁ G8

G8 = CH₂Ph
 G15 = 151

C(O)G16
 151

G16 = NH₂
 G21 = 160-119 159-122

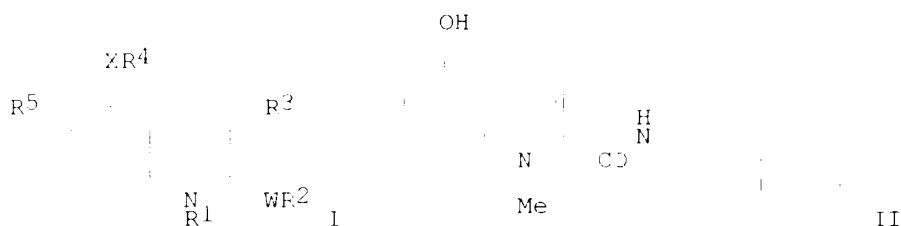
G22
 160 G22
 159 G22
 G22

G25 = Ph
 G28 = SO₂
 G30 = NH
 MDL: claim 1
 NPE: or pharmaceutically acceptable salts, amides, or esters
 SPE: or stereoisomeric forms

134 ANSWER 2 OF 13 MARPAT COPYRIGHT 2003 ACT

ACCESSION NUMBER: 134:326405 MARPAT
 TITLE: Preparation of indoles for pharmaceutical use as
 positive modulators of nicotinic receptor function
 INVENTOR(S): Gurley, David; Rosamond, James
 PATENT ASSIGNEE(S): AstraZeneca AB, Swed.
 SOURCE: PCT Int. Appl., 40 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY APP. NUM. COUNT: 1
 PATENT INFO EMAIL: 13

WO 2001032622 A1 20010510 WO 2000-SE2147 20001101
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BE, BG, BR, BY, BZ, CA, CH, CN,
 CR, CU, CZ, DE, DK, DM, DS, EE, ES, FI, GB, GD, GE, GH, GM, HR,
 HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
 LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NE, NI, NO, NZ, OM,
 SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
 YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 FW: GH, GM, KE, LS, MW, MG, SD, SL, SE, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TE, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, ME, NE, SN, TD, TG
 BE 2000015193 A 20020618 BE 2000-15193 20001101
 EP 1230218 A1 20020814 EP 2000-975499 20001101
 E: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, FO, MK, CY, AL, TR
 NO 200202105 A 20020702 NO 2002-2105 20020502
 SE 1999-399- 19991103
 WO 2000-SE2147 20001101
 PRIORITY APPLN. INFO.:
 GI



Ab indoles, such as I [R1 = H, alkyl, alkenyl, alkynyl, arylalkyl; R2 = H, aryl, alkyl, etc.; R3, R5 = H, halogen, alkyl; R4 = H, alkyl, arylalkyl, acyl, sulfonyl, etc.; X = O, NH; W = CO, CO2, CONH2; R6 = H, alkyl, aryl, heteroaryl, etc.], were prepd. to enhance the efficacy of agonists at nicotinic receptors for treatment of conditions assocd. with redns. in nicotinic transmission, such as psychotic disorders, intellectual impairment disorders, Huntington's disease, Tourette's syndrome, Parkinson's disease, attention deficit hyperactivity disorder, anxiety, etc. Thus, indole II was prepd. via amidation of 4-benzylloxy-1-methyl-1H-indole-3-carboxylic acid with phenethylamine using TBTU, HOBT and DIEA in DMF. The prepd. indoles were assessed for their enhancement of nicotinic efficacy.

MSTR 1

GE

64

64

$$\begin{array}{rcl} 32 & = & \text{NH}_2 \\ 65 & = & 43 \end{array}$$

43 C (O) G2

G1 = NH
 G12 = Ph
 G13 = Ph
 G20 = (1-2) CH2
 G-1 = C(=O)
 MPL: claim 1
 NTE: additional ring formation also claimed
 NTE: and pharmaceutically acceptable salts
 STE: or enantiomers

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

E14 ANSWER 6 OF 17 MARPAT COPYRIGHT 2003 ACS

ACCESSION NUMBER: 134:80806 MAPPAT
TITLE: Methods of treating fungal infections with inhibitors
of NAD synthetase
INVENTOR(S): Brouillette, Wayne J.; Brouillette, Christie G.;
Delucas, Lawrence J.
PATENT ASSIGNEE(S): The UAB Research Foundation, USA
SOURCE: PCT Int. Appl., 149 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001000197	A2	20010104	WO 2000-US18029	20000629
WO 2001000197	A3	20010907		
W:	AE, AG, AI, AM, AN, AO, AP, AR, AS, AT, AU, AV, BA, BB, BC, BD, BF, BG, BH, BI, BJ, BR, CA, CC, CE, CH, CI, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, EG, EI, FI, GE, GD, GE, GH, GM, GN, GU, HT, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NL, NO, NZ, PA, PE, PG, PH, PK, PL, PT, PU, PY, QA, RE, RO, RU, RW, SA, SC, SD, SE, SG, SI, SK, SL, SM, SN, SR, SS, ST, SV, SW, SY, SZ, TD, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, EG, GZ, MD, ME, MI, MN, MU, TZ, TM			
PW:	GH, GM, KE, LS, MW, MZ, SD, SL, SN, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SF, SI, SK, SG, SI, SM, GA, GN, GW, ML, MF, ME, MN, TH, TG			
EP 1194135	A2	20020410	EP 10000433.1	20000629
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, ME, PT, SI, SK, LT, LV, FI, RO			

BE 2000012135	A	20020702	BE 2000 12135	20000629
PRIORITY APPLN. INFO.:			US 1999 141436P	19990629
			WO 2000 051800A	20000629

catalytic sites in yeast whereby the yeast is killed.

MSTR 1

G1 G4 G3
1 3

G1 = indolyl (SO (1-) G7)
G3 = 44

G8
44

G6 = (1-12) CH2
G7 = C32H / NHCCPH
MPL: claim 4

L14 ANSWER 7 OF 17 MARPAT COPYRIGHT 2003 ACS

ACCESSION NUMBER: 133:164001 MARPAT

TITLE: Preparation of indole-2-carboxylic acids as
anti-inflammatory agents

INVENTOR(S): Faull, Alan Wellington; Kettle, Jason

PATENT ASSIGNEE(S): Astrazeneca UK Limited, UK

SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2

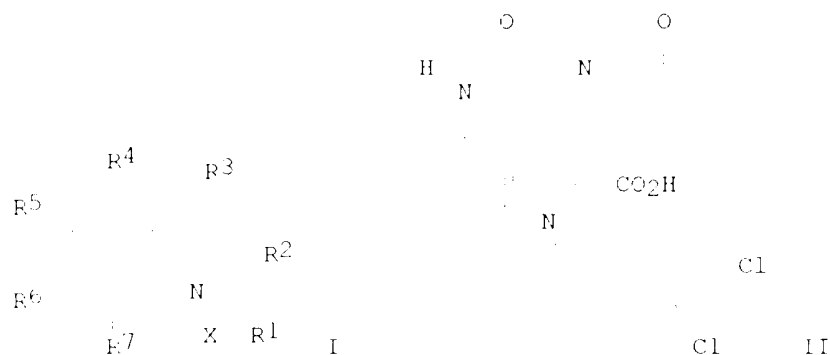
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

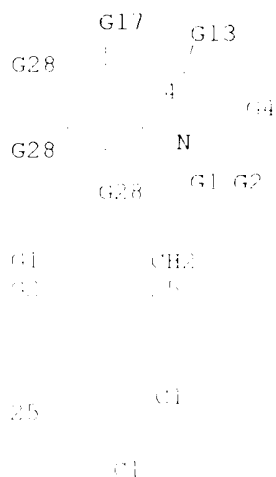
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000046195	A1	20000810	WO 2000 06266	20000111
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BE, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MF, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UK, US, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MI, RU, TL, TM			
EW:	GH, GM, KE, LS, MW, SD, SL, SN, TH, UG, UZ, AT, BE, CH, CY, DE, DK, EE, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, SI, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1156256	A1	20011205	EP 2000 901256	20000131
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
JP 2003502279	T2	20030121	JP 2000 597266	20000131
GB 2446749	A	20040121	GB 2446749	20000131
W				



AB The title compds. [I; X = CH₂, SO₂; R₁ = (un)substituted aryl, heteroaryl; R₂ = CO₂H, CN, COCH₂OH, etc.; R₃ = H, alkyl, alkenyl, etc.; R₄ = NHCOR₁₅, NH₂SO₂R₁₅, OCONR₁₆R₁₇ (wherein R₁₅ = (un)substituted alkyl, aryl, heteroaryl; R₁₆, R₁₇ = H, (un)substituted alkyl, aryl, heteroaryl; with the proviso that at least one of R₁₆ or R₁₇ is other than hydrogen, or NR₁₆R₁₇ form (un)substituted heterocyclic ring which optionally contains further heteroatoms); R₅-R₇ = H, a functional group, (un)substituted hydrocarbyl, heterocyclyl; and further provided that when R₄ = NHCOR₁₅, R₁₅ = substituted alkyl, (un)substituted aryl, (un)substituted heteroaryl], useful in the treatment of disease mediated by monocyte chemoattractant protein-1 or RANTES (Regulated Upon Activation, Normal T-cell Expressed and Secreted), such as inflammatory disease, were prep'd. and formulated. E.g., a multi-step synthesis of the indole II which showed IC₅₀ of 1.17 .mu.M against hMCP-1 receptor binding, was given.

MSTR 1



52 $\text{C(O)CH}_2\text{OH}$

G17 = 229

279 C(O)G18
101

G18 = morpholino
MPL: claim 1

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 8 OF 17 MARPAT COPYRIGHT 2003 ACS

ACCESSION NUMBER: 132:347584 MARPAT

TITLE: Preparation of naphthylacetylpiperazines as serotonin ligands useful as pro-erectile compounds

INVENTOR(S): Hayes, Eric S.

PATENT ASSIGNEE(S): Nortran Pharmaceuticals, Inc., Can.

SOURCE: PCT Int. Appl., 147 pp.

CODEN: FIMXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000028993	A1	20000525	WO 1999-US27484	19991119

W: AE, AL, AM, AT, AU, AZ, BA, BE, BG, BR, BY, CA, CH, CN, CR, CU, DE, DK, DM, EE, EG, FI, GE, GF, GG, GH, GM, HP, HU, ID, IL, IN, IS, JP, KE, KG, KH, KR, KZ, LC, LK, LE, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RC, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AG, BY, KG, KZ, MD, RU, TJ, TM

EW: CH, GM, KE, LE, MW, SI, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1998-109255P 19981119

AB Use of optoreg. compds. that can occupy 5-HT_{2C} and 5-HT_{2A} receptors, or 5-HT_{2C}, 5-HT_{2A}, and 5-HT₃ receptors, or 5-HT_{2C}, 5-HT_{2A}, and 5-HT_{1A} receptors, or 5-HT_{2C}, 5-HT_{2A}, 5-HT₃, and 5-HT_{1A} receptors for manuf. of a medicament for treatment of sexual dysfunction is claimed. Thus, 1-naphthylacetic acid was refluxed 1 h in SOCl₂ to give an oil which was added to a 78-degree. soln. of 1-methylpiperazine in CH₂Cl₂ to give 1-methyl-4-(1-naphthylacetyl)piperazine monohydrochloride. The latter inhibited radioligand binding to 5-HT_{2A}, 5-HT_{2C} and 5-HT₃ receptors by 72%, 51%, and 60%, resp.

MSTR 1

O

G1 CH2 C G7 G9 N N G10

G1 = 41

G5

G5 G4 G5

G5 41

G5

G4 = COMe

G4 = 131

H
131 G6

G6 = 302NH2 / 123

H
133 G3

G6 = CH2Ph

DER: and salts, solvates and tautomers

MPL: claim 58

NTE: substitution is restricted

STE: and enantiomers or diastereomers

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 9 OF 17 MARPAT COPYRIGHT 2003 ACS

ACCESSION NUMBER: 132:88205 MARPAT

TITLE: Piperazine moiety-containing acetic acid derivatives
in compositions and methods for modulating sexual
activity

INVENTOR(S): Beatch, Gregory M.; Choi, Lewis S. H. P. D.; Hayes,
Eric S.; Kolorocy, Alexander B.

PATENT ASSIGNMENT: Norton Pharmaceuticals, Inc., Can.

SOURCE: PCT Int. Appl., 73 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFO EMAIL N:

WO 2000002550 A3 200000615

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BE, BY, CA, CH, CN, CU, CC,
DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9949811 A1 20000201 AU 1999-49811 19990708

PRIORITY APPLN. INFO.: US 1998-92037P 19980708

WO 1999-US15571 19990708

AB Substituted acetic acid derivs. contg. a piperazine moiety (prepn.
included) are useful as pro-libido agents for males and females, and may
be used for the treatment of sexual dysfunction, including erectile
dysfunction and impotence, and to enhance sexual performance.

MSTR 2

G1 CH₂ C(O)G₄ G5 N N G7
4 6

G1 = 271

G9
G9 G12
G9 G9
G9 271
G9

G9 COMe
G9 - SO₂NH₂ / 235

HN G3

G11 CH₂Ph
G11 304

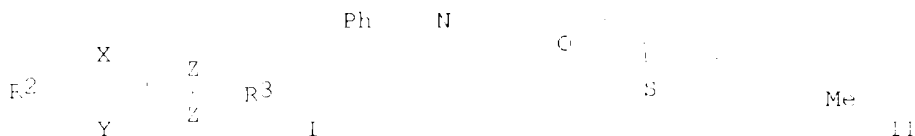
N G11
304

DEF: ind solvates or tautomers
M11: 1111
M11: 1111

L14 ANSWER 10 OF 17 MARPAT COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 131:271876 MARPAT
 TITLE: Cholinergic antagonists
 INVENTOR(S): Chen, Yuhpyng Liang; Nagel, Arthur Adam
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S., 14 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5965574	A	19991012	US 1996-689745	19960813
US 6303633	B1	20011016	US 1999-438712	19991111
US 2002049210	A1	20020425	US 2001-935903	20010823
PRIORITY APPLN. INFO.:			US 1991 771293	19911003
			WO 1992-US7230	19920831
			US 1994-211044	19940309
			US 1996-689745	19960813
			US 1997-957639	19971024
			US 1999-438712	19991111

GI



AB Title compds. [1; 1 of R2, R3 R1Z1Z2Z3 and the other H; R1 phenyl(alkyl), cinnamyl, heterocarylmethyl; X = N or CH; Y = C, S, NR6; R6 = H, alkyl, Ph, etc.; Z2 = atoms to complete an (un)substituted thiopene ring, benzene ring, pyridine ring, etc.; Z1 = piperidine-1,4 diyl; Z3 = alkenylene, Z4 = C6 or C5; were prepd. as acetylcholinesterase inhibitors (no data). Thus, 5-methylbenzothiophene anion was condensed with 2-[4-(1-phenyl-4-piperidinyl)propenyl] and the oxidized product hydrogenated to give title compd. 11.

MSTR 1

GI

G9 = 35

N G22
35

G16 = 58

G18 G3

58 G18
G18 G9
G18

G18 = 118 / NHCOMe

C(O) G4
118

G22 = SO₂Ph (SO (1-5) alkyl<(1-4)>)
 MPL: claim 1
 NTE: also incorporates broader disclosure
 NTE: additional ring formation also disclosed

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 11 OF 17 MARPAT COPYRIGHT 2003 ACS

ACCESSION NUMBER: 131:87814 MARPAT

TITLE: indole derivatives as inhibitors of factor Xa, and
their preparation and use as anticoagulantsINVENTOR(S): Defossa, Elisabeth; Heinelt, Uwe; Klingler, Otmar;
Zoller, Gerhard; Al-Obeidi, Fahad; Walser, Armin;
Wildgoose, Peter; Matter, Hans

PATENT ASSIGNEE(S): Hoechst Marion Roussel Deutschland GmbH, Germany

SOURCE: PCT Int. Appl., 199 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

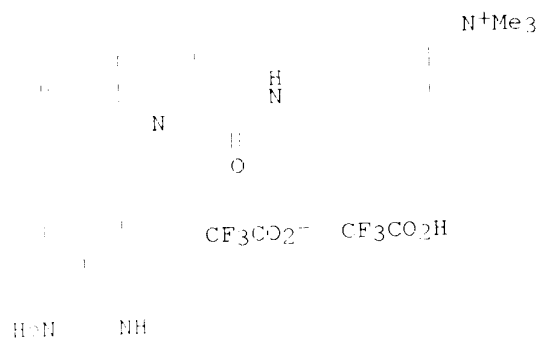
PATENT INFORMATION:

PATENT NO.	FILING DATE	APPLICATION NO.	DATE
WO 9933800	A1 19990708	WO 1998 EP8030	19981210
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,			
DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,			
KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,			
MW, MY, N, NL, NO, NZ, OM, PG, PH, PK, PL, PT, RO, RU, SD, SE,			
SI, SK, SL, SM, SN, SR, ST, SV, TH, TR, UA, UG, UZ, VC, VE, YU,			
ZM, ZW			

CM, GA, GN, GW, ML, MP, NE, SN, TD, TG

CA 2316172	AA	19990708	CA 1998-2316172	19981210
AU 9920528	A1	19990719	AU 1999-20528	19981210
AU 743881	B2	20020207		
BR 9814340	A	20001003	BR 1998-14340	19981210
EP 1042287	A1	20001011	EP 1998-965244	19981210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,				
SI, FI				
JP 2001527066	T2	20011225	JP 2000-526484	19981210
ZA 9811759	A	19990728	ZA 1998-11759	19981222
NO 200003057	A	20000818	NO 2000-3057	20000614
US 6337344	B1	20020108	US 2000-582344	20000314
PRIORITY APPLN. INFO.:			EP 1997-122901	19971224
			WO 1998-EP8030	19981210

G1



AB The invention relates to the inhibition of blood clotting proteins, and more particularly, to indole derivs. or their physiol. acceptable salts which effect this, having formula I (R1 groups = H, halo, alkyl, CF3, (un)substituted Ph or phenylalkoxy, etc., with .gtoreq.2 of R1 being H; .gtoreq.1 of R2 and R3 = (CH2)0-2CO2H or derivs., other = H, F, Cl, Br, or alkyl; or R2R3 = CH2CH2N(COPh)CH2 or analogs; A = bond, alk(en/yn)ylene, ar, ar, ar, etc.; R4 = (un)substituted Ph, pyridyl, or other heterocyclyl. I are inhibitors of the blood-clotting enzyme factor Va. I are inhibitors of the blood-clotting enzyme factor Va. I are inhibitors of the blood-clotting enzyme factor Va. I are inhibitors of the blood-clotting enzyme factor Va.

further relates to compns. contg. I, in particular pharmaceutical compns. contg. a compd. I and pharmaceutically acceptable carriers and/or auxiliary substances. Over 160 compds. I were prepd. For instance, 1H-indole-2-carboxylic acid Et ester underwent a 5-step sequence to give title salt II. This prepn. involved (1) N-alkylation with 3-cyanobenzyl bromide, (2) alk. hydrolysis of the ester, (3) amidation with 4-(Me₂N)C₆H₄CH₂NH₂·2HCl, (4) conversion of the nitrile to a thioamide, and (5) quaternization at dimethylamino, and ammonolysis of the thioamide to an amidine. In an assay using human factor Xa in vitro, II had a K_i value of 0.090 .mu.M.

MSTR 1

G1
 G1 G12
 9
 G1 N₇⁸ G13
 G1 G20

G2 = NH
 G3 = C(Ph) (SO)
 G13 = 44

C(O) G14
 44

G17 = 39

N₃₉ G15

G22 CH₂
 G23 Ph (SO (1, G21,
 DER: and precursors and physiologically acceptable salts
 MPL: claim 1
 NTE: substitution is restricted
 NTE: also incorporates claim 10
 NTE: additional ring formation also claimed
 NTE: diastereoisomers and mixtures

REFERENCE CITATION: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFERENCE

114 ANSWER 12 OF 17 MARPAT COPYRIGHT 2003 ACS

ACCESSION NUMBER: 131:44659 MARPAT

TITLE: Preparation of N-aryl-1-adamantanecarboxamides and
 analogs as partial 5-HT_{2A} receptor antagonists
 Barker, Andrew; Brink, Stephen; Munday, Ian; et al

CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9829560	A1	19990617	WO 1998-SE2189	19981201
W: AL, AM, AT, AU, AG, EA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KR, KZ, LC, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, VE, VN, YU, ZW, AM, AZ, BY, KG, KE, MD, RU, TJ, TM				
EW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GE, GR, IE, IT, LU, MC, NL, PT, SE, BE, BG, CF, CG, CI, CM, CA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2312889	AA	19990617	CA 1998-2312889	19981201
AU 9817914	A1	19990628	AU 1998-17914	19981201
AU 946716	B2	20020502		
EP 1036053	A1	20000920	EP 1998-962752	19981201
E: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BE 9813368	A	20001003	BE 1998-13368	19981201
JF 2001525391	T2	20011211	JF 2000-524257	19981201
US 6242470	B1	20010605	US 1999-230511	19990126
NO 2000002785	A	20000801	NO 2000-2785	20000531
PRIORITY APPLN. INFO.:				
			SE 1997-4545	19971205
			WO 1998-SE2189	19981201

GI

R1

Z

E2

I

AB Title: Compds. (I); R1: Zirconium; P: (un)substituted Ph, benzothianolyl, indolyl, pyridyl, etc.; R2: H or halo; Z: CH₃ or C; Z': CH₃, H₂CH₂, CHCH₃, NHCH₃ were prepd. Thus, 1-adamantanecetyl chloride was amidated by 6-amino-2-methylbenzothianol to give 1: R1 = CH₃, NHCH₃, 4-methyl-6-benzothianolyl, R2 = H, C(CH₃)₃. Data for hkl. activity of 1 were given.

MSTR 1A

O

C G5
 12
 G3 NH

10 G1

2 G2

G3 = CH2
 G5 = indolyl (SO (1-) G6)
 G6 = 2,5 / 99

O

G12

16

N

G12 G13 Ph
 99

G13 = CH2
 DER: or pharmaceutically acceptable salts or solvates
 MPL: claim 1
 NTE: substitution is restricted

REFERENCE COUNT: 15 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 13 OF 17 MARPAT COPYRIGHT 2003 ACS

ACCESSION NUMBER: 127:65772 MARPAT

TITLE: Preparation of indolyl(alkyl)benzothiadiazoles and analogs as endothelin receptor antagonists

INVENTOR(S): Mederski, Werner; Oswald, Mathias; Dorsch, Dieter; Schmitges, Claus J.; Wilm, Claudia; Christadler, Maria; Anshli, Scheila

PATENT ASSIGNEE(S): Merck Patent GmbH, Germany

SOURCE: Ger. Offen., 25 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

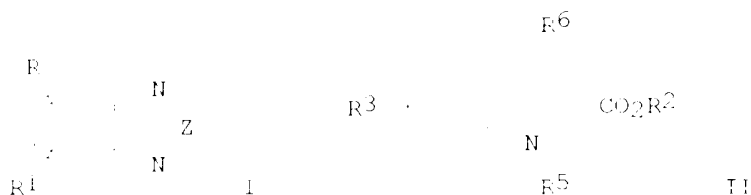
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

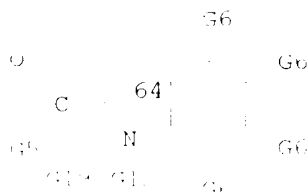
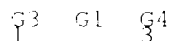
PATENT NO.	FILE	DATE	APPLICATION NO.	DATE
DE 19543639	A1	19970528	DE 1995 19543639	19951123
CN 1156146	A	19970806	CN 1996 110857	19960726
CN 1155539	A	19970730	CN 1996-109279	19960801
WO 9719077	A1	19970529	WO 1996 EP5120	19961120

WI: AU, BE, CA, CH, DE, DK, ES, FI, FR, GB, GR, HU, IL, IN, JP, KR, NL, NO, NZ, PL, PT, RU, SE, SG, SI, SK, TR, TW, UA, US, VN, ZA

61



MSTR 1

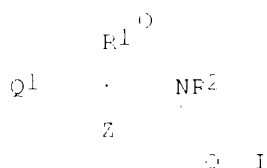


CH CH
 CH NH₂CONHPL (100%)
 G1E = (1-2) CH₂
 G1G = Ph (SO)
 DER: and salts
 MPL: claim 1

INVENTOR(S): Macleod, Angus Murray
 PATENT ASSIGNEE(S): Merck Sharp and Dohme Ltd., UK
 SOURCE: Eur. Pat. Appl., 23 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

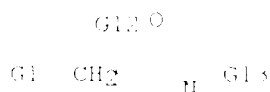
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 545478	A1	19930609	EP 1992-203656	19921126
E: CH, DE, FR, GB, IT, LI, NL				
CA 2083891	AA	19930604	CA 1991-2083891	19921126
US 5334696	A	19940802	US 1991-982794	19921130
JP 05261728	A2	19931012	JP 1991-349804	19921202
PRIORITY APPL. INFO.:				
			GB 1991-25726	19911203
			GB 1991-7055	19920331
			GB 1991-16237	19920730

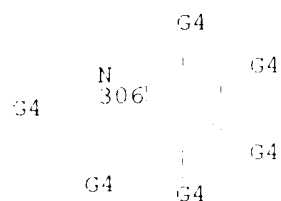
GI



AB Title compds. [I; Q1 = halophenyl, (substituted) naphthyl, indolyl, benzothiophenyl, benzofuryl, benzyl, fluorenyl; R1 = H, alkyl, alkenyl; R2 = (substituted) phenylalkyl; Z = O, S, NR8, CR9R10; R8 = H, alkyl, (substituted) Ph, phenylalkyl, COR11, CO2R11, CONR9R10; R9, R10 = H, alkyl, (substituted) phenyl(alkyl); R11 = (substituted) Ph, phenylalkyl, alkyl] were prep'd. Thus, indolelactic acid in CH2Cl2 was treated successively with Et3N, tert butyldimethylsilyl triflate, Et3N, iso-Bu chloroformate, and 3,5-bis(trifluoromethyl)benzylamine to give indolelactic acid 3,5-bis(trifluoromethyl)benzylamide. This was stirred with carbonyldiimidazole in THF to give 3-[3,5-bis(trifluoromethyl)benzyl]-5-(indol-3-ylmethylene)oxanclidine-2,4-dione. This antagonized substance P at human neurokinin 1 receptors with IC50 = 71 nM.

MSTR 1B





G4 = 4'

$\text{C}(O)G10$
49

G7 = NH
 G8 = COCF3
 G10 = NH2
 G15 = 1F0

N G16
180

DER: or salts or prodrugs
 MPL: claim 1

LI4 ANSWER 15 OF 17 MARPAT COPYRIGHT 2003 ACS

ACCESSION NUMBER: 119:138890 MARPAT

TITLE: Preparation of diethylenetriamine derivatives and their use for diagnostic and therapeutic purposes

INVENTOR(S): Mikhail, Gamal

PATENT ASSIGNEE(S): Bayer A. G., Germany

SOURCE: Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

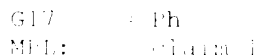
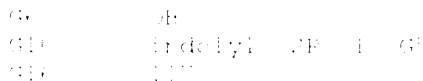
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 540975	A1	19930512	EP 1492 119289	19921006
EP 540975	B1	19960117		
R: CH, DE, FR, GB, IT, SE				
DE 41 6489	A1	19930512	DE 1991 4136489	19911106
CA 2082023	AA	19930507	CA 1992 2082023	19921103
JP 05221942	A2	19930831	JP 1992 317904	19921104
PRIORITY APPLN. INFO.:			DE 1991-4136489	19911106
GI				

MSTR 1B



INVENTOR(S): Morigaki, Masakazu; Nakamura, Shigeru; Fujita, Yoshihiro; Kawamoto, Hiroshi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 156 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 519190	A1	19921123	EP 1992-107386	19920430
EP 519190	B1	19980211		
E: BE, DE, FR, GB, IT, NL				
JP 04359349	A2	19921111	JP 1991-159918	19910605
JP 2729545	B2	19930318		
US 5270148	A	19931214	US 1992-876749	19920429
PRIORITY ATPLN. INFO.:			JP 1991-159918	19910605

GI For diagram(s), see printed CA Issue.

AB A processing soln. for a Ag halide color photog. material contains .gtoreq.1 compd. represented by the formula I (X1 = a nonmetallic at. group necessary for forming a N-contg. heteroarom. ring) and .gtoreq.1 compd. represented by the formula II (X2 = a nonmetallic at. group necessary for forming a N-contg. heteroarom. ring; E1, E2 = alkyl or aryl and E1 and E2 may be combined to form a 4- to 8-membered ring). The processing soln. gives a reduced HCHO vapor pressure and provides stabilized dye images.

MSTR 2A

G14 CH2 G1

G1 = 92

G6 G6
 G6

G6
 N
 G6

G6 G6
 G14 519

L14 ANSWER 17 OF 17 MARPAT COPYRIGHT 2003 ACS

ACCESSION NUMBER: 116:214361 MARPAT

TITLE: Preparation of (N-pyridinylalkyl)carbamoyloxyindoles
and -indolines as acetylcholinesterase inhibitorsINVENTOR(S): Effland, Richard Charles; Davis, Larry; Olsen, Gordon
E.

PATENT ASSIGNEE(S): Hoechst-Roussel Pharmaceuticals, Inc., USA

SOURCE: Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

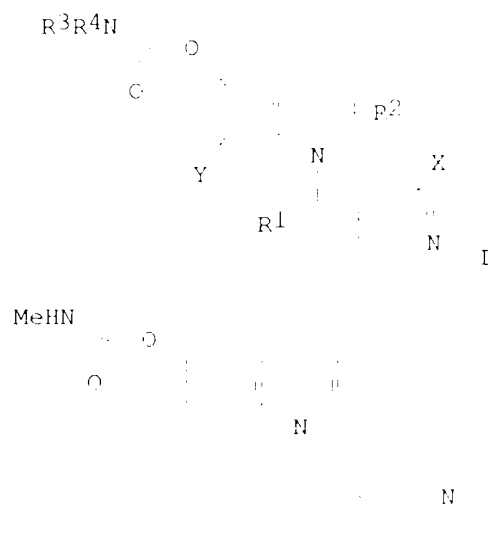
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

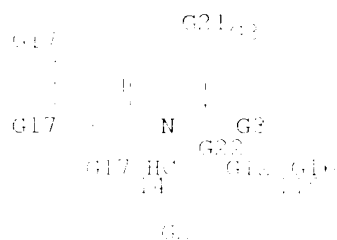
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 471298	A1	19920219	EP 1991-113336	19910803
EP 471298	B1	19951102		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AT 129710	E	19951115	AT 1991-113336	19910803
ES 2079532	T3	19960116	ES 1991-113336	19910808
FI 9103801	A	19930214	FI 1991-3801	19910809
CA 2048931	AA	19930214	CA 1991-2048931	19910812
CA 2048931	C	20011030		
NO 9103141	A	19930214	NO 1991-3141	19910812
NO 178372	B	19951204		
NO 178372	C	19960313		
AU 6181765	A1	19930220	AU 1991-61765	19910812
AU 638158	B2	19930617		
HU 58723	A2	19930330	HU 1991-2675	19910812
ZA 9106340	A	19930429	ZA 1991-6340	19910812
JP 05125075	A2	19930921	JP 1991-01712	19910812
JP 06070034	B4	19940907		
IL 99167	A1	19930526	IL 1991-09167	19910812
CZ 284753	B6	19940217	CZ 1991-0490	19910812
US 5264442	A	19931123	US 1992-835510	19920214
US 5455245	A	19951003	US 1994-248920	19940525
US 5638816	A	19971119	US 1995-355467	19950931
PRIORITY APPLN. INFO.:			US 1990-166724	19900911
			US 1992-835510	19920214
			US 1993-109526	19930820
			US 1994-248920	19940525



AB Title compds. [I; R¹ = H, alkyl, arylalkyl, alkenyl, alkynyl; R² = H, alkyl, alkenyl, CHO, cyano; R³ = H, alkyl; R⁴ = alkyl, arylalkyl, cycloalkyl, (hetero)aryl, heteroarylalkyl, etc.; NR³R⁴ = piperidino, pyrrolidino, morpholino, tetrahydroisoquinolino, etc.; X, Y = H, NO₂, NH₂, halo, alkyl, alkoxy, OH] were prepd. Thus, a mixt. of 1-(4-pyridinylmethyl)-1H-indol-5-ol, MeNCO, and K₂CO₃ was stirred 3 h in THF to give title compd. II. II inhibited rat striatum acetylcholinesterase with IC₅₀ = 6.83 .mu.M.

MSTR 1A

G7 C(O):



G1 CN
G7 NHMe
G12 - 117-14 116-110 / 117-14 115-110 /
117-14 114-110 / 117-14 119-110 / 116-14 117-110 /
116-14 115-110 / 116-14 114-110 / 116-14 119-110 /
117-14 117-110 / 116-14 116-110 / 115-14 114-110 /
117-14 117-110 /

Wright 09/889,515

February 24, 2003

115 116 117
N
114
119

DER: or pharmaceutically acceptable acid addition salts
MPL: claim 1
STE: or geometric and optical isomers and racemic mixtures

Bealstein (N. Hts)

Wright 09/889,515

February 24, 2003

end que

L12

STR

G3 42

CH2Cb
@12 13

CH2Hy
@14 15

SO2Cb
@16 17

SO2Hy
@18 19

2 3 7 8 G2 10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

10 21 22 23

24 25 26

SO2 NH
@27 28

Hy @29

41

O S O
40 @30 31

32 33 34 35 36

37 38 39

52
O

53
O

NH C G4
@43 44 45

O C G5
@49 50 51

NH SO2G4
@46 47 48
51 @62 63

Ak @54 Cy @55
Ak N Cy
64 @65 65

N Ak
@56 57
Cy N Cy
67 @68 69

N Cy
@58 59

N @60

VAF G1=17/14/16/13

VAF G2=21/25/27/29/30/33/38/CN

VAF G3=43/49/46

VAF G4=54/55

VAF G5=56/58/60/62/65/68

NODE ATTRIBUTES:

NSPEC 13 R AT 60

CONNECT 13 X3 FC AT 7

CONNECT 13 X3 FC AT 8

CONNECT 13 E1 FC AT 31

CONNECT 13 E1 FC AT 34

CONNECT 13 E1 FC AT 40

CONNECT 13 E1 FC AT 41

CONNECT 13 E2 FC AT 56

CONNECT 13 E2 FC AT 58

DEFAULT MLEVEL 13 ATOM

GGCAT 13 UNS AT 13

GGCAT 13 UNS AT 15

GGCAT 13 UNS AT 17

GGCAT 13 UNS AT 19

GGCAT 13 UNS AT 21

GGCAT 13 UNS AT 23

Wright 09/889,515

February 24, 2003

DEFAULT ECLEVEL IS LIMITED

ECCUNT IS M6 C AT 13

ECCUNT IS M6 C AT 17

ECCUNT IS E1 C E4 N AT 29

ECCUNT IS E3 C E1 N E1 O AT 36

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 69

STEREO ATTRIBUTES: NONE

L15 0 SEA FILE=BEILSTEIN SSS FUL L12